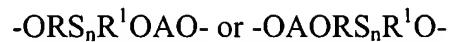


WHAT IS CLAIMED IS:

1. A compound characterized by having a unit formed from a polysulfide diol and an organic dibasic carboxylic acid or its anhydride, wherein the hydroxyl groups are separated from said polysulfide by at least 2 carbon atoms, having a total of at least about 5 carbon atoms, said polysulfide having from 2 to 8 sulfur atoms.
- 5 2. A compound according to claim 1, wherein said dibasic acid is an organic dicarboxylic acid or anhydride of at least about 2 carbon atoms and said polysulfide diol is aliphatic of from 4 to 40 carbon atoms.
- 10 3. A compound according to claim 2, wherein said polysulfide has from 2 to 4 sulfur atoms.
- 15 4. A compound according to claim 1, wherein said compound is a condensation copolymer.
5. A compound according to claim 1, wherein said compound is an addition polymer.
- 20 6. A compound having at least one unit of the formula:



wherein:

- 25 O and S have their normal meaning of oxygen and sulfur;
- n is at least 2 and not more than about 8;
- 30 R and R¹ are the same or different and are organic divalent radicals, each having from 2 to 20 carbon atoms; and
- A is the residue of a dibasic carboxylic acid of from 1 to 40 carbon atoms.

- 35 7. A composition of the formulae:

- (a) $\text{MF}_m\text{RS}_n\text{R}^1\text{OM}^1$; or
- 40 (b) $\text{MZAORS}_n\text{R}^1\text{F}'_m\text{AZ}^1\text{M}^1$,

wherein

- O and S have their normal meaning of oxygen and sulfur;
- 45 n is at least 2 and not more than about 8;

F is of the formula $-\text{ORS}_n\text{R}^1\text{OAO}-$;

F' is of the formula $-\text{OAORS}_n\text{R}^1\text{O}-$

5 *m* is at least 1;

Z and *Z'* are the same or different and are oxy or amino;

10 *M* and *M'* are the same or different and are hydrogen or an organic substituent;

10 *R* and *R'* are the same or different and are organic divalent radicals, each having from 2 to 20 carbon atoms; and

15 *A* is the residue of a dicarboxylic acid of from 2 to 40 carbon atoms.

15 8. A composition according to claim 7, wherein *M* and *M'* are hydrogen and *A* is of from 2 to 12 carbon atoms and *R* and *R'* are aliphatic.

20 9. A composition according to claim 7, wherein *A* is a fatty acid dimer residue and *R* and *R'* are aliphatic.

20 10. A composition according to claim 7, wherein:

25 *M* is defined as W^1R^2- ; and

25 *M'* is defined as W^2R^3- ,

wherein:

30 *R*² and *R*³ are the same or different and are an organic divalent radical having from 2 to 12 carbon atoms; and

35 *W* and *W'* are the same or different, and are amino and substituted amino of from about 1 to 6 carbon atoms, hydroxyl, carboxyl, isothiocyanate, isocyanate, oxo-carbonyl, non-oxo-carbonyl, siloxane, silane, cyclocarbonate, active olefin, or active halogen.

40 11. A copolymer comprising as a monomer a composition according to claim 7 wherein:

40 said organic substituent for *M* is defined as W^1R^2- and for *M'* as W^2R^3- ;

40 *R*² and *R*³ are the same or different and are an organic divalent radical having from 2 to 12 carbon atoms; and

W and W¹ are the same or different, and are amino and substituted amino of from about 1 to 6 carbon atoms, hydroxyl, carboxyl, isothiocyanate, isocyanate, oxo-carbonyl, non-oxo-carbonyl, siloxane, silane, cyclocarbonate, active olefin, or active halogen.

5 12. A compound according to claim 11, wherein said polymer is a polyurethane.
13. A compound according to claim 11, wherein said polymer is a polyether.
10 14. A compound according to claim 11, wherein said polymer is a polyester.
15 15. A compound according to claim 11, wherein said polymer is an addition polymer.
16. A copolymer according to claim 11, wherein A is a dicarboxylic acid residue of
15 from 2 to 8 carbon atoms and n is 2 to 4.
17. A compound according to claim 15, wherein at least one of W and W¹ is
hydroxyl.
20 18. A compound according to claim 15, wherein at least one of W and W¹ is
carboxyl.
19. A compound according to claim 15, wherein at least one of W and W¹ is an
amine.
25 20. A compound of the formulae:
 (a) MF_mRS_nR¹OM¹; or
30 (b) MF'_mAOM¹,

wherein:

35 F is of the formula -ORS_nR¹AO-;
F' is of the formula -OAORS_nR¹O-;
m is at least 1;
40 n is of 2 to 4;
R and R¹ are ethylene;
A is the residue of an aliphatic dicarboxylic acid of from 2 to 40 carbon atoms;
45 and

M and M¹ are H.

21. A composition resulting from the reaction of the reactants di(hydroxyethyl)disulfide, succinic or adipic acid and dimethylolpropionic acid and an acid catalyst.

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22. An object of a polymer comprising a compound according to claim 1.